

17119 U.S. PTO  
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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 8054-50 (LW9007US/HJ)

First Inventor Jae-Hyun KIM

Title ARRAY SUBSTRATE AND REFLECTIVE.....

Express Mail Label No. EV 413370513 US

<b>APPLICATION ELEMENTS</b>  See MPEP chapter 600 concerning utility patent application contents.		<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231																																													
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages 45] (preferred arrangement set forth below)           <ul style="list-style-type: none"> <li>- Descriptive title of the invention</li> <li>- Cross Reference to Related Applications</li> <li>- Statement Regarding Fed sponsored R &amp; D</li> <li>- Reference to sequence listing, a table, or a computer program listing appendix</li> <li>- Background of the Invention</li> <li>- Brief Summary of the Invention</li> <li>- Brief Description of the Drawings (if filed)</li> <li>- Detailed Description</li> <li>- Claim(s)</li> <li>- Abstract of the Disclosure</li> </ul> </p> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [ Total Sheets 26 ]</p> <p>5. Oath or Declaration [ Total Pages 2 ]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)</p> <p>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</p>		<p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li> <li>b. Specification Sequence Listing on:               <ul style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li> <li>ii. <input type="checkbox"/> paper</li> </ul> </li> <li>c. <input type="checkbox"/> Statements verifying identity of above copies</li> </ul> </p>																																													
<b>ACCOMPANYING APPLICATION PARTS</b>																																															
<p>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney (when there is an assignee)</p> <p>11. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</p> <p>13. <input type="checkbox"/> Preliminary Amendment</p> <p>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: Credit Card Payment Form (2)</p>																																															
<p>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:</p> <p><input type="checkbox"/> Continuation    <input type="checkbox"/> Divisional    <input type="checkbox"/> Continuation-in-part (CIP)    of prior application No.: _____ / _____</p> <p>Prior application Information: Examiner _____ Group Art Unit: _____</p> <p>For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>																																															
<b>19. CORRESPONDENCE ADDRESS</b>																																															
<input type="checkbox"/> Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label here)		or <input type="checkbox"/> Correspondence address below																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 2px;">Name</td> <td colspan="4" style="padding: 2px;"></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Address</td> <td colspan="4" style="padding: 2px;">F. CHAU &amp; ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501</td> </tr> <tr> <td colspan="2" style="padding: 2px;">City</td> <td colspan="2" style="padding: 2px;">East Meadow</td> <td colspan="2" style="padding: 2px;">State</td> <td colspan="2" style="padding: 2px;">New York</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Country</td> <td colspan="2" style="padding: 2px;">U.S.A</td> <td colspan="2" style="padding: 2px;">Zip Code</td> <td colspan="2" style="padding: 2px;">11554</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Name (Print/Type)</td> <td colspan="2" style="padding: 2px;">Frank Chau</td> <td colspan="2" style="padding: 2px;">Registration No. (Attorney/Agent)</td> <td colspan="2" style="padding: 2px;">34,136</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Signature</td> <td colspan="2" style="padding: 2px;"></td> <td colspan="2" style="padding: 2px;">Date</td> <td colspan="2" style="padding: 2px;">3/12/04</td> </tr> </table>				Name						Address		F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501				City		East Meadow		State		New York		Country		U.S.A		Zip Code		11554		Name (Print/Type)		Frank Chau		Registration No. (Attorney/Agent)		34,136		Signature				Date		3/12/04	
Name																																															
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# FEE TRANSMITTAL

## for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 986.00)

Complete if Known

Application Number	
Filing Date	March 12, 2004
First Named Inventor	Jae-Hyun KIM
Examiner Name	
Art Unit	
Attorney Docket No.	8054-50 (LW9007US/HJ)

USPTO  
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07799967

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## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None

Deposit Account:

50-0679

F.CHAU &amp; ASSOCIATES, LLC

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments

Charge any additional fee(s) or any underpayment of fee(s)

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Fee Code (\$)	Fee	Small Entity	Fee Code (\$)	Fee Description	Fee Paid
1001	770	2001	385		Utility filing fee	770.00
1002	340	2002	170		Design filing fee	
1003	530	2003	265		Plant filing fee	
1004	770	2004	385		Reissue filing fee	
1005	160	2005	80		Provisional filing fee	
SUBTOTAL (1)		(\$ 770.00)				

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	25	-20** =	5	x	18	=	90	Fee from below	Fee Paid
Independent Claims	4	- 3** =	1	x	86	=	86		
Multiple Dependent					290	=			

Large Entity	Fee Code (\$)	Fee	Small Entity	Fee Code (\$)	Fee Description				
1202	18	2202	9		Claims in excess of 20				
1201	86	2201	43		Independent claims in excess of 3				
1203	290	2203	145		Multiple dependent claim, if not paid				
1204	86	2204	43		** Reissue independent claims over original patent				
1205	18	2205	9		** Reissue claims in excess of 20 and over original patent				
SUBTOTAL (2)		(\$ 176.00)							

\*\*or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee	Fee Code (\$)	Fee Description	Fee Paid
1051	130	2051	65 Surcharge - late filing fee or oath	
1052	50	2052	25 Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130 Non-English specification	
1812	2,520	1812	2,520 For filing a request for ex parte reexamination	
1804	920*	1804	920* Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840* Requesting publication of SIR after Examiner action	
1251	110	2251	55 Extension for reply within first month	
1252	420	2252	210 Extension for reply within second month	
1253	950	2253	475 Extension for reply within third month	
1254	1,480	2254	740 Extension for reply within fourth month	
1255	2,010	2255	1,005 Extension for reply within fifth month	
1401	330	2401	165 Notice of Appeal	
1402	330	2402	165 Filing a brief in support of an appeal	
1403	290	2403	145 Request for oral hearing	
1451	1,510	1451	1,510 Petition to institute a public use proceeding	
1452	110	2452	55 Petition to revive - unavoidable	
1453	1,330	2453	665 Petition to revive - unintentional	
1501	1,330	2501	665 Utility issue fee (or reissue)	
1502	480	2502	240 Design issue fee	
1503	640	2503	320 Plant issue fee	
1460	130	1460	130 Petitions to the Commissioner	
1807	50	1807	50 Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180 Submission of Information Disclosure Stmt	
8021	40	8021	40 Recording each patent assignment per property (times number of properties)	40.00
1809	770	2809	385 Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385 For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385 Request for Continued Examination (RCE)	
1802	900	1802	900 Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

(Complete if applicable)

SUBMITTED BY			
Name (Print/Type)	Frank Chau	Registration No. (Attorney/Agent)	34,136
Signature			
Telephone	516-357-0091		
Date	3/12/04		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT

Atty. Docket No. 8054-50 (LW9007US/HJ)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

APPLICATION FEE TRANSMITTAL

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s) : Jae-Hyun KIM, Yong-Kyu JANG, Sang-Woo KIM,  
Jae-Young LEE, Sung-Eun CHA

For: ARRAY SUBSTRATE AND REFLECTIVE-TRANSMISSIVE  
TYPE LIQUID CRYSTAL DISPLAY APPARATUS HAVING  
THE SAME

This application is a:

New Application  
 Continuation  
 Continuation-In-Part (CIP)  
 Divisional

of co-pending U.S. application Serial No.  
filed on

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date March 12, 2004 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV 413370513US addressed to: Commissioner for Patents, Alexandria, VA 22313.

Frank Chau  
(Type or print name of person mailing paper)

  
(Signature of person mailing paper)

**Enclosed are:**

[X] 35 page(s) of specification  
[X] 1 page(s) of Abstract  
[X] 9 page(s) of claims  
[X] 26 sheets of drawings [X] formal [] informal  
[X] 2 page(s) of Declaration and Power of Attorney

[X] An Assignment of the invention to:

SAMSUNG ELECTRONICS CO., LTD.

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[ ] This application claims the benefit under 35 U.S.C.  
§119(e) of U.S. Provisional Application(s) No(s).:

APPLICATION NO(S).:

FILING DATE

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[X] Priority under Title 35 United States Code, § 119 is  
claimed from:

<u>Country</u>	<u>Appln. No.</u>	<u>Filed</u>
Korea	2003-16477	March 17, 2003

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[X] Certified copy of which:

[X] is enclosed

[ ] will follow.

**Additional papers enclosed:**

[ ] Preliminary Amendment

The fees to be charged are to be based on the number of claims remaining as a result of the attached Preliminary Amendment.

[ ] Information Disclosure Statement

[ ] Form PTO-1449

[ ] Other

**Fee Calculation (37 C.F.R. §1.16)**

For	Number Filed	Number Extra	Rate	Basic Fee
Total				\$ 770.00
Claims*	25 -20 =	5	x \$ 18.00	\$ 90.00
Independent				
Claims	4 -3 =	1	x \$ 86.00	\$ 86.00
Multiple	[ ] yes	Add'l. Fee	\$290.00	\$
Dependent				
Claims	[X] no	Add'l. Fee	None	= \$
				TOTAL \$ 946.00

[ ] Applicant Claims Small Entity Status Under 37 C.F.R. § 1.27. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith \$ .00.

[X] A Credit Card Form Payment Form PTO-2038 in the amount of \$40.00 is enclosed for recording the attached Assignment.

[X] A Credit Card Form Payment Form PTO-2038 in the amount of \$946.00 to cover the filing fee is attached.

[ ] Charge fee to Deposit Account No. 50-0679. Order No. \_\_\_\_\_ TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

\* Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor.  
TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

**Relate Back - 35 U.S.C. § 120**

Amend the specification by inserting after the Title the sentence:

--This is a  continuation  continuation-in-part  
 divisional of copending application Serial No.  
\_\_\_\_\_ filed on \_\_\_\_\_, the disclosure of  
which in its entirety is incorporated-by-reference  
herein.--

The prior application is assigned of record to :

Date:

3/12/04

  
SIGNATURE OF ATTORNEY  
Frank Chau

Reg. No. 34,136

F. CHAU & ASSOCIATES, LLC  
1900 Hempstead Turnpike, Suite 501  
East Meadow, New York 11554  
Tel. No. (516) 357-0091  
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FC/pg